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### 1 Image processing: The encryption method to share a secret binary image and its decryption system

Sang-su Lee, Jong-wook Han, Hyo-wook Bae

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies**

Full text available:  pdf(156.34 KB)      Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, an encryption method to share a secret binary image was proposed. This divides the image to be encrypted into an arbitrary number of images and encrypts them using XOR process with different binary random images which was prepared by the means of the XOR process, too. Each encrypted slice image can be distributed to the authenticated ones. However, we transfer the encrypted images to the binary phase masks to strengthen the security power, that means phase masks can not be copied ...

**Keywords:** cryptography, data security, image reconstruction, optical imaging

## <sup>2</sup> Engineering a security kernel for Multics

Michael D. Schroeder

November 1975 **Proceedings of the fifth ACM symposium on Operating systems principles**

Full text available:  pdf(892.24 KB)    Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This paper describes a research project to engineer a security kernel for Multics, a general-purpose, remotely accessed, multiuser computer system. The goals are to identify the minimum mechanism that must be correct to guarantee computer enforcement of desired constraints on information access, to simplify the structure of that minimum mechanism to make verification of correctness by auditing possible, and to demonstrate by test implementation that the security kernel so developed is capab ...

**Keywords:** Multics, Operating system structure, Privacy, Protection, Security, Security kernel, Verification

<sup>3</sup> Session 3: XML applications: Regulating access to SMIL formatted pay-per-view movies

Naren Kodali, Duminda Wijesekera

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available:  pdf(331.16 KB)    Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML [15] has become a standard format for information that moves within the World Wide Web. Previous work in securing XML documents concentrated mainly on textual documents. Those proposals are ineffective in the context of multimedia, which mostly comprises of some sensible combination of images, text, audio, and video. As multimedia constitutes a significant component of the traffic within the Internet, it requires to be secured. We propose an access control model and an encryption mechanism t ...

**Keywords:** SMIL, XML, access control, encryption, integrity, pay-per-view, smart card, synchronized multimedia

#### 4 Instilling professionalism in a software development organization

C. Weisert


May 1988 **Proceedings of the ACM SIGCPR conference on Management of information systems personnel**

Full text available:  [pdf\(704.26 KB\)](#) Additional Information: [full citation](#), [index terms](#)

#### 5 Mobile and Cooperative Systems: Information sharing and security in dynamic coalitions

Charles E. Phillips, T.C. Ting, Steven A. Demurjian

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Today, information sharing is critical to almost every institution. There is no more critical need for information sharing than during an international crisis, when international coalitions dynamically form. In the event of a crisis, whether it is humanitarian relief, natural disaster, combat operations, or terrorist incidents, international coalitions have an immediate need for information. These coalitions are formed with international cooperation, where each participating country offers what ...

**Keywords:** access control, distributed systems, dynamic coalitions, information security

#### 6 A specification and code generation tool for message translation and validation

Charles Plinta, Richard D'Ippolito, Roger Van Scoy

November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada**, Volume XVIII Issue 6

Full text available:  [pdf\(1.43 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Ada95, CORBA servers, code generation, integration, interoperability, message, model, model-based software engineering, specification tool, translation, validation

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